

Docket No.: 33226/980001; P8304  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Alexander T. Garthwaite

Confirmation No.: 7446

Application No.: 10/824,968

Art Unit: 2165

Filed: April 15, 2004

Examiner: R. Hoffler

For: PARALLEL REMEMBERED-SET  
PROCESSING RESPECTING POPULAR-  
OBJECT DETECTION

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**REPLY UNDER 37 C.F.R. § 1.111**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Madam:

In response to the Office Action dated January 7, 2009 ("Office Action"), please reconsider this application in view of the following.

**AMENDMENTS TO THE SPECIFICATION**

Please amend the originally-filed specification as follows.

On page 4, please replace the paragraph beginning at line 27 with the following paragraph:

-- Garbage-collection mechanisms can be implemented by various parts and levels of a computing system. One approach is simply to provide them as part of a batch compiler's output. Consider Fig. 2's simple batch-compiler operation, for example. A computer system executes in accordance with compiler object code and therefore acts as a compiler 20. The compiler object code is typically stored on a medium such as Fig. 1's system disk 17 or some other machine-readable medium, and it is loaded into RAM 14 to configure the computer system to act as a compiler. In some cases, though, the compilers object code's persistent storage may instead be provided in a server system remote from the machine that performs the compiling. ~~The electrical signals that carry the digital data by which the computer systems exchange that code are examples of the kinds of electromagnetic signals by which the computer instructions can be communicated. Others are radio waves, microwaves, and both visible and invisible light.~~--

On page 6, please replace the paragraph beginning at line 7 with the following paragraph:

-- Most typically, the class files' byte-code routines are executed by a processor under control of a virtual-machine process 27. That process emulates a virtual machine from whose instruction set the byte codes are drawn. As is true of the compiler 23, the virtual-machine process 27 may be specified by code stored on a local disk or some other machine-readable medium from which it is read into Fig. 1's RAM 14 to configure the computer system to implement the garbage collector and otherwise act as a virtual machine. Again, though, that code's persistent storage may instead be provided by a

server system remote from the processor that implements the virtual machine, in which case the code would be transmitted electrically or optically to the virtual machine implementing processor. --